

**CONFIDENTIAL**

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REASON 3 & (3)

Test Report

for

VIDEO RECORDERS

Task Order No. 1

Work Order No. 4

50X1

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The following tests on the Video Recorders, Task Order No. 1, Work Order No. 4,  were conducted to prove compliance with U. S. Government specifications dated 17 January 1957. Included in this report are serial numbers 352, 353, 354, 355, 357, 358, 359, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 373, 374, 375, 376, 377 and 381.

50X1

PREPARED BY:

Test Engineer

Date 7/8/58

REVIEWED BY:

Test Supervisor

Date 7/9/58

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50X1

APPROVED BY:

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Date 7/15/58

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Project Engineer

Date 8/4/58

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SUMMARY

Sensitivity tests for 1  $\mu$ sec pulse within the range of 50 to 4000 cps proved to be adequate and within the  $42 \pm 2$  decibels below one milliwatt specification. Sensitivity was measured at 3.85 kmc.

Audio reproduction and playback were distinguishable though weak in some units.

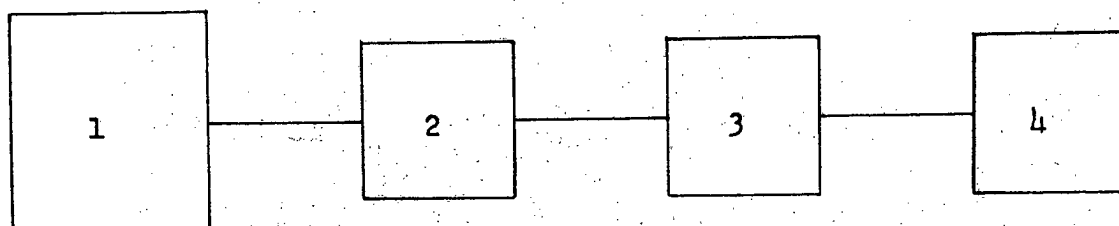
## TEST PROCEDURE

### AUDIO

Using the enclosed microphones, speech recordings were made of each unit and played back for check of clarity and reproducibility. An understanding of the reproduced recording as stated in the specifications was the sole judging factor of the unit. An unmodified Minifon playback unit was used to play back the recordings.

### VIDEO

With the equipment connected as shown in the test diagram, the HP 616A Signal Generator frequency was set to 3.85 kmc, the pulsewidth to 1  $\mu$ sec and the output attenuator to -40 dbm. Tuning the DS 109 Weinschel Double Stub Tuner for peak signal response, a recording was made while varying the modulation between 50 and 4000 cps. An understanding of the reproduced recording as stated in the specifications was the sole judging factor of the unit. An unmodified Minifon playback unit was used to play back the recordings.

TEST DIAGRAMTEST EQUIPMENT

<u>Test Instrument</u>	<u>Manufacturer</u>	<u>MELPAR TI-No.</u>
1) Signal Generator	Hewlett Packard 616	60-9
2) Double Stub Tuner	Weinschel DS109	624
3) Detector Mount	PRD 613	618
4) Video Recorder	Melpar --	--

TEST DATA **CONFIDENTIAL**

<u>Serial No.</u>	<u>Frequency (kmc)</u>	<u>Sensitivity (dbm)</u>	<u>Pulsewidth (μsec)</u>	<u>Comments</u>
352	3.85	-40	1	Satisfactory
353	3.85	-40	1	Satisfactory
354	3.85	-40	1	Satisfactory
355	3.85	-40	1	Satisfactory
357	3.85	-40	1	Satisfactory
358	3.85	-40	1	Satisfactory
359	3.85	-40	1	Satisfactory
361	3.85	-40	1	Satisfactory
362	3.85	-40	1	Satisfactory
363	3.85	-40	1	Satisfactory
364	3.85	-40	1	Satisfactory
365	3.85	-40	1	Satisfactory
366	3.85	-40	1	Satisfactory
367	3.85	-40	1	Satisfactory
368	3.85	-40	1	Satisfactory
369	3.85	-40	1	Satisfactory
370	3.85	-40	1	Satisfactory
371	3.85	-40	1	Satisfactory
373	3.85	-40	1	Satisfactory
374	3.85	-40	1	Satisfactory
375	3.85	-40	1	Satisfactory
376	3.85	-40	1	Satisfactory
377	3.85	-40	1	Satisfactory
381	3.85	-40	1	Satisfactory